

APPENDIX C
Concrete Compression Testing

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 52922 Mix number : 560C3250
Sample date : 03/31/04 Size agg : 3/4"
Material type : CIP CONCRETE COMPRESSION TEST Spec Strength: 3250psi @ 28 Days
Supplier : MISSION READY-MIX INC. Cement factor:
Admixture :

===== SAMPLE DATA =====
Set number : 0001 Slump, ASTM C143 : 4.00in
Cast time : 11:55am Air temp : 72deg F
Fld Inspector : WILLIAM REYLEK Mix temp : 65deg F
Ticket/Truck : 291659/ 63 Air content, ASTM C173 :
Test tech : Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: MANHOLE STRUCTURES NO. 1, 84" STRUCTURE TOP SLAB
AND WALLS @ STATION NO. 2+15. SPENT BACKWASH SYST.

===== TEST DATA =====
SAMPLE TEST AREA LOAD CORR CURE FRAC COMPRES
NO DATE AGE DIMENSIONS (in.) (sq in) (lbs) FACT TYPE TYPE STR(psi)

00001 H 6.00 x 12.00 28.27 L
00002 04/07/04 7 6.00 x 12.00 28.27 89000 L D 3150
00003 04/28/04 28 6.00 x 12.00 28.27 160000 L A 5660
00004 04/28/04 28 6.00 x 12.00 28.27 158000 L A 5590
Avg = 5630

Samples MEET specified 28 - day strength requirement at 28 days.

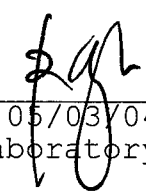
Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


05/03/04
Laboratory Manager

S I G N E T
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L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

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CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 52924	Mix number	: 560C3250
Sample date	: 04/01/04	Size agg	: 3/4"
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 3250psi @ 28 Days
Supplier	: MISSION READY-MIX INC.	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 3.50in
Cast time	: 1:15pm	Air temp	: 70deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 64deg F
Ticket/Truck	: 291663/ 59	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: MANHOLE STRUCTURES NO. 2, 84" STRUCTURE WALL @
STATION NO. 2+41, SPENT BACKWASH SYSTEM

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00005		H	6.00 x 12.00	28.27			L		
00006	04/08/04	7	6.00 x 12.00	28.27	115000		L	B	4070
00007	04/29/04	28	6.00 x 12.00	28.27	160000		L	A	5660
00008	04/29/04	28	6.00 x 12.00	28.27	156000		L	A	5520
Avg =									5590

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/03/04
Laboratory Manager

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PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 52923
Sample date : 04/02/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : MISSION READY-MIX INC.
Admixture :

Mix number : 560C3250
Size agg : 3/4"
Spec Strength: 3250psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 8:35am
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 291718/ 65
Test tech :

Slump, ASTM C143 : 4.50in
Air temp : 68deg F
Mix temp : 60deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: MANHOLE STRUCTURES NO. 3, 84" FLOOR SLAB @ STATION
NO. 2+52, SPENT BACKWASH SYSTEM

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00009		H	6.00 x 12.00	28.27			L		
00010	04/09/04	7	6.00 x 12.00	28.27	91000		L	B	3220
00011	04/30/04	28	6.00 x 12.00	28.27	131000		L	A	4630
00012	04/30/04	28	6.00 x 12.00	28.27	142000		L	A	5020

Avg = 4830

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

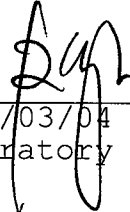
===== LEGEND =====

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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CA 95833

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* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52973
Sample date : 04/16/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :
Mix number : CHJ01-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 8:50am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 32451/ 99
Test tech :
Slump, ASTM C143 : 4.50in
Air temp : 74deg F
Mix temp : 68deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: CMU WALL FOOTINGS, PUMP STATION AT ENCANTO PARK

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00013		H	6.00 x 12.00	28.27			L		
00014	04/30/04	14	6.00 x 12.00	28.27	120000		L	A	4240
00015	05/14/04	28	6.00 x 12.00	28.27	141000		L	A	4990
00016	05/14/04	28	6.00 x 12.00	28.27	144000		L	A	5090
									Avg = 5040

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

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CONCRETE COMPRESSION TEST REPORT

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SANTA ANA, CA 92707
(714) 957-9512

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ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 52976	Mix number	:
Sample date	: 04/20/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOURTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0002	Slump, ASTM C143	:	4.50in
Cast time	: 9:40am	Air temp	:	70deg F
Fld Inspector	: CAST BY OTHERS	Mix temp	:	63deg F
Ticket/Truck	: 32737/ 99	Air content, ASTM C173	:	
Test tech	:	Fresh unit wt, ASTM C138	:	pcf
		Dry unit wt, ASTM C567	:	pcf

PLACEMENT LOCATION: PIPE SUPPORT FOUNDATION
LOCATED AT EAST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00020		H	6.00 x 12.00	28.27			L		
00021	04/27/04	7	6.00 x 12.00	28.27	93000		L	A	3290
00022	05/18/04	28	6.00 x 12.00	28.27	124000		L	A	4390
00023	05/18/04	28	6.00 x 12.00	28.27	125000		L	A	4420
									Avg = 4410

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52975	Mix number : CHJ01-066
Sample date : 04/20/04	Size agg :
Material type : CIP CONCRETE COMPRESSION TEST	Spec Strength: 4000psi @ 28 Days
Supplier : FOUTH STREET ROCK	Cement factor:
Admixture :	

SAMPLE DATA

Set number : 0003	Slump, ASTM C143 : 4.00in
Cast time : 11:10am	Air temp : 76deg F
Fld Inspector : CAST BY OTHERS	Mix temp : 65deg F
Ticket/Truck : 32772/ 99	Air content, ASTM C173 :
Test tech :	Fresh unit wt, ASTM C138: pcf
	Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: SOUTH EAST END OF CARBON VESSEL FOUNDATION
LOCATED AT EAST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00024		H	6.00 x 12.00	28.27			L		
00025	04/27/04	7	6.00 x 12.00	28.27	98000		L	A	3470
00026	05/18/04	28	6.00 x 12.00	28.27	126000		L	A	4460
00027	05/18/04	28	6.00 x 12.00	28.27	123000		L	A	4350
									Avg = 4410

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

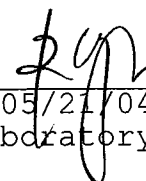
Samples tested in accordance with ASTM C31/C39 (CAST, CU

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


05/21/04
Laboratory Manager

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L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52974
Sample date : 04/20/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ01-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 7:35am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 32693/ 99
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 68deg F
Mix temp : 62deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: NORTH EAST CORNER OF CARBON VESSEL FOUNDATION.
LOCATED AT EAST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00028		H	6.00 x 12.00	.00			L		
00029	04/27/04	7	6.00 x 12.00	28.27	88000		L	C	3110
00030	05/18/04	28	6.00 x 12.00	28.27	120000		L	D	4240
00031	05/18/04	28	6.00 x 12.00	28.27	118000		L	D	4170

Avg = 4210

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

GROUT COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52972
Sample date : 04/22/04
Material type : GROUT PRISM COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : CHJ01-278
Size agg :
Spec Strength: 2000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 1:35pm
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 33103/ 179
Test tech :

Slump, ASTM C143 : 7.00in
Air temp : 80deg F
Mix temp : 70deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: FIRST LIFT 0-4' EAST CMU WALL, PUMP STATION AT
ENCANTO PARK

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00017	04/29/04	7	3.01 x 6.02 x 3.02	9.09	15400		L		1690
00018	05/20/04	28	3.01 x 6.02 x 3.00	9.03	28200		L		3120
00019	05/20/04	28	3.01 x 6.02 x 3.02	9.09	29400		L		3230

Avg = 3180

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with UBC 21-18

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

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CONCRETE COMPRESSION TEST REPORT

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2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

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MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #:
APPL # :

MIX DATA

Lab Number	: 52931	Mix number	: CHJ01-066
Sample date	: 04/23/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOUTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 4.50in
Cast time	: 7:50am	Air temp	: 68deg F
Fld Inspector	: CAST BY OTHERS	Mix temp	: 61deg F
Ticket/Truck	: 33136/ 145	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: NORTHEAST SIDE OF CARBON VESSEL FOUNDATION LOCATED
AT EAST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00032	04/30/04	7	6.00 x 12.00	28.27	97000	L	A		3430
00033	05/21/04	28	6.00 x 12.00	28.27	134000	L	A		4740
00034	05/21/04	28	6.00 x 12.00	28.27	140000	L	A		4950
									Avg = 4850

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

RPT TO: URS CORPORATION
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2520 VENTURE OAKS WAY
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MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52932	Mix number : CHJ01-066
Sample date : 04/23/04	Size agg :
Material type : CIP CONCRETE COMPRESSION TEST	Spec Strength: 4000psi @ 28 Days
Supplier : FOUTH STREET ROCK	Cement factor:
Admixture :	

SAMPLE DATA

Set number : 0002	Slump, ASTM C143 : 4.00in
Cast time : 8:30am	Air temp : 71deg F
Fld Inspector : CAST BY OTHERS	Mix temp : 62deg F
Ticket/Truck : 33151/ 190	Air content, ASTM C173 :
Test tech :	Fresh unit wt, ASTM C138: pcf
	Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: CENTER PIPE SUPPORT FOUNDATION LOCATED AT EAST
CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00035	04/30/04	7	6.00 x 12.00	28.27	93000		L	A	3290
00036	05/21/04	28	6.00 x 12.00	28.27	134000		L	A	4740
00037	05/21/04	28	6.00 x 12.00	28.27	132000		L	A	4670
									Avg = 4710

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
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L A B S, I N C.

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MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 52933	Mix number	: CHJ01-066
Sample date	: 04/23/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOUTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0003	Slump, ASTM C143	: 4.00in
Cast time	: 9:20am	Air temp	: 74deg F
Fld Inspector	: CAST BY OTHERS	Mix temp	: 62deg F
Ticket/Truck	: 33184/ 145	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: SOUTH END PIPE SUPPORT FOUNDATION LOCATED AT EAST
CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00038	04/30/04	7	6.00 x 12.00	28.27	98000		L	A	3470
00039	05/21/04	28	6.00 x 12.00	28.27	136000		L	A	4810
00040	05/21/04	28	6.00 x 12.00	28.27	129000		L	D	4560
									Avg = 4690

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/21/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

GROUT COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 52934
Sample date : 04/26/04
Material type : GROUT PRISM COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : CHJ01-278
Size agg :
Spec Strength: 2000psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 0:00am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 33470/ 145
Test tech :

Slump, ASTM C143 :
Air temp : deg F
Mix temp : deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: SECOND LIFT 4'-8' SOUTH CMU WALL, PUMP STATION
ENCANTO PARK

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00041	05/03/04	7	3.01 x 6.03 x 3.02	9.09	16200		L		1780
00042	05/24/04	28	3.02 x 6.02 x 3.02	9.12	24100		L		2640
00043	05/24/04	28	3.01 x 6.01 x 3.02	9.09	22700		L		2500
									Avg = 2570

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

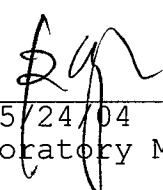
Samples tested in accordance with UBC 21-18

===== LEGEND =====

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION


05/24/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

MORTAR COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52935
Sample date : 04/29/04
Material type : MORTAR CYLINDER COMPRESSION
Supplier : ORCO BLENDED PRODUCTS INC.
Admixture :

Mix number : TYPE S
Size agg :
Spec Strength: 1800psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 6:35am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : /
Test tech :

Slump, ASTM C143 :
Air temp : 73deg F
Mix temp : 67deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: 6' EAST CMU WALL PUMP STATION AT ENCANTO PARK

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00044	05/06/04	7	2.00 x 4.00	3.14	4900		L	C	1560
00045	05/27/04	28	2.00 x 4.00	3.14	7400		L	A	2360
00046	05/27/04	28	2.00 x 4.00	3.14	7100		L	A	2260
									Avg = 2310

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with UBC 21-16

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/24/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52938
Sample date : 04/30/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ04-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 7:45am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 33924/ 173
Test tech :

Slump, ASTM C143 : 4.50in
Air temp : 68deg F
Mix temp : 60deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: NORTH WEST END OF CARBON VESSEL FOUNDATION LOCATED
AT WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00047	05/07/04	7	6.00 x 12.00	28.27	112000	L	A		3960
00048	05/28/04	28	6.00 x 12.00	28.27	136000	L	A		4810
00049	05/28/04	28	6.00 x 12.00	28.27	138000	L	A		4880
									Avg = 4850

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/30/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52939
Sample date : 04/30/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ04-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0002
Cast time : 8:00am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 33929/ 145
Test tech :

Slump, ASTM C143 : 5.00in
Air temp : 69deg F
Mix temp : 61deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: EAST CENTER SIDE OF PIPE SUPPORT FOUNDATION
LOCATED AT WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00050	05/07/04	7	6.00 x 12.00	28.27	108000	L	A		3820
00051	05/28/04	28	6.00 x 12.00	28.27	139000	L	A		4920
00052	05/28/04	28	6.00 x 12.00	28.27	141000	L	A		4990
									Avg = 4960

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/30/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #:
APPL # :

MIX DATA

Lab Number : 52940
Sample date : 04/30/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ04-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0003
Cast time : 9:30am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 33949/ 247
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 72deg F
Mix temp : 61deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: SOUTH WEST OF CARBON VESSEL FOUNDATION LOCATED
AT WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00053	05/07/04	7	6.00 x 12.00	28.27	97000	L	D		3430
00054	05/28/04	28	6.00 x 12.00	28.27	127000	L	A		4490
00055	05/28/04	28	6.00 x 12.00	28.27	122000	L	A		4320

Avg = 4410

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

05/30/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52941
Sample date : 05/05/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ01-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 7:35am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 34374/ 99
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 70deg F
Mix temp : 62deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: NORTH WEST SIDE OF PIPE SUPPORT FOUNDATION LOCATED
AT WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00056	05/12/04	7	6.00 x 12.00	28.27	99000		L	C	3500
00057	06/02/04	28	6.00 x 12.00	28.27	126000		L	A	4460
00058	06/02/04	28	6.00 x 12.00	28.27	131000		L	A	4630
									Avg = 4550

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

06/11/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 52942	Mix number	: CHJ01-066
Sample date	: 05/05/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOUTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0002	Slump, ASTM C143	: 5.00in
Cast time	: 8:20am	Air temp	: 72deg F
Fld Inspector	: CAST BY OTHERS	Mix temp	: 60deg F
Ticket/Truck	: 34388/ 99	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: CENTER EAST SIDE OF CARON VESSEL FOUNDATION
LOCATED AT WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00059	05/12/04	7	6.00 x 12.00	28.27	101000		L	A	3570
00060	06/02/04	28	6.00 x 12.00	28.27	130000		L	A	4600
00061	06/02/04	28	6.00 x 12.00	28.27	134000		L	A	4740
									Avg = 4670

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

06/11/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52943
Sample date : 05/05/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ01-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0003
Cast time : 9:30am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 34405/ 99
Test tech :

Slump, ASTM C143 : 5.00in
Air temp : 75deg F
Mix temp : 63deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: WEST END OF PIPE SUPPORT FOUNDATION LOCATED AT
WEST CARBON FILTER CONCRETE PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00062	05/12/04	7	6.00 x 12.00	28.27	93000		L	B	3290
00063	06/02/04	28	6.00 x 12.00	28.27	128000		L	A	4530
00064	06/02/04	28	6.00 x 12.00	28.27	129000		L	A	4560

Avg = 4550

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

06/11/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 52978
Sample date : 05/13/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ01-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 7:25am
Fld Inspector : CAST BY OTHERS
Ticket/Truck : 35116/ 146
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 71deg F
Mix temp : 66deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: EAST CONCRETE FILTR PIPE SUPPORT PIERS. LOCATED
EAST FILTER VESSEL SLAB

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00065	05/20/04	7	6.00 x 12.00	28.27	100000		L	A	3540
00066	06/10/04	28	6.00 x 12.00	28.27	143000		L	A	5060
00067	06/10/04	28	6.00 x 12.00	28.27	136000		L	A	4810
									Avg = 4940

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

06/11/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 52989 Mix number : FSRC11
Sample date : 05/18/04 Size agg :
Material type : CIP CONCRETE COMPRESSION TEST Spec Strength: 2500psi @ 28 Days
Supplier : FOURTH STREET ROCK Cement factor:
Admixture :

===== SAMPLE DATA =====
Set number : 0001 Slump, ASTM C143 : 4.00in
Cast time : 1:50pm Air temp : 78deg F
Fld Inspector : WILLIAM REYLEK Mix temp : 70deg F
Ticket/Truck : 35582/ 181 Air content, ASTM C173 :
Test tech : Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: WEST SOUND WALL FOUNDATIONS

===== TEST DATA =====
SAMPLE TEST AREA LOAD CORR CURE FRAC COMPRES
NO DATE AGE DIMENSIONS (in.) (sq in) (lbs) FACT TYPE TYPE STR(psi)

00068 06/01/04 14 6.00 x 12.00 28.27 76000 L B 2690
00069 06/15/04 28 6.00 x 12.00 28.27 100000 L A 3540
00070 06/15/04 28 6.00 x 12.00 28.27 102000 L A 3610
Avg = 3580

Samples MEET specified 28 - day strength requirement at 28 days.

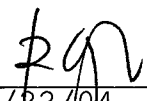
Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


06/22/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 52988 Mix number : CHJ01-066
Sample date : 05/19/04 Size agg :
Material type : CIP CONCRETE COMPRESSION TEST Spec Strength: 4000psi @ 28 Days
Supplier : FOUTH STREET ROCK Cement factor:
Admixture :

===== SAMPLE DATA =====
Set number : 0001 Slump, ASTM C143 : 5.00in
Cast time : 7:20am Air temp : 65deg F
Fld Inspector : WILLIAM REYLEK Mix temp : 60deg F
Ticket/Truck : 35590/ 176 Air content, ASTM C173 :
Test tech : Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: WEST CONCRETE FILTER PIPE SUPPORT PIERS. LOCATED
WEST FILTER VESSEL SLAB

===== TEST DATA =====
SAMPLE TEST AREA LOAD CORR CURE FRAC COMPRES
NO DATE AGE DIMENSIONS (in.) (sq in) (lbs) FACT TYPE TYPE STR(psi)

00072 H 6.00 x 12.00 28.27 L
00073 06/02/04 14 6.00 x 12.00 28.27 114000 L C 4030
00074 06/16/04 28 6.00 x 12.00 28.27 125000 L D 4420
00075 06/16/04 28 6.00 x 12.00 28.27 131000 L A 4630
Avg = 4530

Samples MEET specified 28 - day strength requirement at 28 days.

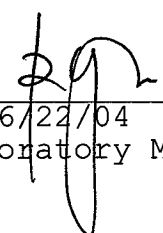
Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


06/22/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 52990 Mix number : FSRC11
Sample date : 05/24/04 Size agg :
Material type : CIP CONCRETE COMPRESSION TEST Spec Strength: 2500psi @ 28 Days
Supplier : FOURTH STREET ROCK Cement factor:
Admixture :

===== SAMPLE DATA =====
Set number : 0001 Slump, ASTM C143 : 6.50in
Cast time : 2:35pm Air temp : 75deg F
Fld Inspector : WILLIAM REYLEK Mix temp : 65deg F
Ticket/Truck : 36016/ 142 Air content, ASTM C173 :
Test tech : Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: NORTH WEST SOUND WALL FOUNDATIONS

===== TEST DATA =====
SAMPLE TEST AREA LOAD CORR CURE FRAC COMPRES
NO DATE AGE DIMENSIONS (in.) (sq in) (lbs) FACT TYPE TYPE STR(psi)

00076 06/01/04 8 6.00 x 12.00 28.27 55000 L C 1950
00077 06/21/04 28 6.00 x 12.00 28.27 74000 L D 2620
00078 06/21/04 28 6.00 x 12.00 28.27 76000 L D 2690
Avg = 2660

Samples MEET specified 28 - day strength requirement at 28 days.

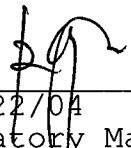
Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION


06/22/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 52992	Mix number	: 560C3250
Sample date	: 06/23/04	Size agg	: 3/4"
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 3250psi @ 28 Days
Supplier	: MISSION READY-MIX INC.	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 4.50in
Cast time	: 10:25am	Air temp	: 88deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 70deg F
Ticket/Truck	: 297113/ 68	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: MANHOLE STRUCTURE NO. 4, 72" BOX STRUCTURE WALLS
AT STATION NO. 4 + 60 SPENT BACK WASH SYSTEM.

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00079		H	6.00 x 12.00	28.27			L		
00080	06/30/04	7	6.00 x 12.00	28.27	112500		L	C	3980
00081	07/21/04	28	6.00 x 12.00	28.27	137000		L	A	4850
00082	07/21/04	28	6.00 x 12.00	28.27	143000		L	A	5060
									Avg = 4960

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

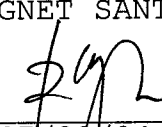
Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

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SIGNET SANTA ANA DIVISION


07/23/04
Laboratory Manager

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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 56974
Sample date : 08/06/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : FSRC11
Size agg : 3/4"
Spec Strength: 2500psi @ 28 Days
Cement factor: 5.00 sack

SAMPLE DATA

Set number : 0001
Cast time : 3:35pm
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 42919/ 181
Test tech :

Slump, ASTM C143 : 5.00in
Air temp : 98deg F
Mix temp : 78deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: EAST SIDE SOUND WALL POST FOUNDATIONS

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00083	08/13/04	7	6.00 x 12.00	28.27	62000	L	C		2190
00084	09/03/04	28	6.00 x 12.00	28.27	101000	L	A		3570
00085	09/03/04	28	6.00 x 12.00	28.27	98000	L	A		3470
									Avg = 3520

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

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* FILE COPY*

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SIGNET SANTA ANA DIVISION

09/06/04
Laboratory Manager

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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 56975	Mix number	: CHJ04-066
Sample date	: 08/06/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOURTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 4.50in
Cast time	: 10:05am	Air temp	: 84deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 70deg F
Ticket/Truck	: 42851/ 99	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION:

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00086		H	6.00 x 12.00	28.27			L		
00087	08/13/04	7	6.00 x 12.00	28.27	94500		L	C	3340
00088	09/03/04	28	6.00 x 12.00	28.27	126000		L	C	4460
00089	09/03/04	28	6.00 x 12.00	28.27	125000		L	D	4420
Avg =									4440

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

09/07/04
Laboratory Manager

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T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 56976	Mix number	: CHJ04-066
Sample date	: 08/10/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOUTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	:
Cast time	: 7:30am	Air temp	: 74deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 70deg F
Ticket/Truck	: 43106/ 145	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: PUMP AND EQUIPMENT SLABS NORTH, SURGE TANK PIERS
AT ENCANTO PARK BOOSTER PUMP STATION

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00090		H	6.00 x 12.00	28.27			L		
00091	08/17/04	7	6.00 x 12.00	28.27	98000		L	D	3470
00092	09/07/04	28	6.00 x 12.00	28.27	135000		L	A	4780
00093	09/07/04	28	6.00 x 12.00	28.27	134000		L	D	4740

Avg = 4760

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION

09/10/04
Laboratory Manager

S I G N E T
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 56981	Mix number	: CHJ04-066
Sample date	: 08/17/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 4000psi @ 28 Days
Supplier	: FOUTH STREET ROCK	Cement factor	:
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 4.00in
Cast time	: 8:20am	Air temp	: 80deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 70deg F
Ticket/Truck	: 43678/ 173	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: EFFLUENT PIPELINE ANTI-SIPHON LOOP CONCRETE
PAD AND PUMP ROOM ELECTRICAL HOUSEKEEPING PAD

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00094		H	6.00 x 12.00	28.27			L		
00095	08/24/04	7	6.00 x 12.00	28.27	112000		L	C	3960
00096	09/14/04	28	6.00 x 12.00	28.27	141000		L	A	4990
00097	09/14/04	28	6.00 x 12.00	28.27	142000		L	A	5020
									Avg = 5010

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

09/17/04
Laboratory Manager

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 56982
Sample date : 08/17/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : MISSION READY-MIX INC.
Admixture :
Mix number : 560C3250
Size agg : 3/4"
Spec Strength: 3250psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====
Set number : 0001
Cast time : 11:40am
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 4721/ 72
Test tech :
Slump, ASTM C143 : 4.50in
Air temp : 96deg F
Mix temp : 72deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: CATCH BASIN CONCRETE CONNECTION SHAFT TO THE 36"
RCP SPENT BACKWASH SYSTEM

===== TEST DATA =====
SAMPLE TEST
NO DATE AGE DIMENSIONS (in.) AREA (sq in) LOAD (lbs) CORR CURE FRAC COMPRES
FACT TYPE TYPE STR(psi)

00098 H 6.00 x 12.00 28.27 L
00099 08/24/04 7 6.00 x 12.00 28.27 114000 L D 4030
00100 09/14/04 28 6.00 x 12.00 28.27 143000 L A 5060
00101 09/14/04 28 6.00 x 12.00 28.27 144000 L A 5090
Avg = 5080

Samples MEET specified 28 - day strength requirement at 28 days.

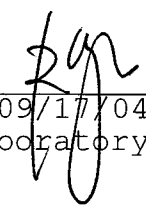
Comments:

Samples tested in accordance with ASTM C31/C39(CAST,CU

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
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Respectfully submitted,
SIGNET SANTA ANA DIVISION


09/17/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number	: 57103	Mix number	: FSRC11
Sample date	: 08/20/04	Size agg	:
Material type	: CIP CONCRETE COMPRESSION TEST	Spec Strength	: 2500psi @ 28 Days
Supplier	: FOURTH STREET ROCK	Cement factor	: 5.00 sack
Admixture	:		

SAMPLE DATA

Set number	: 0001	Slump, ASTM C143	: 5.00in
Cast time	: 10:10am	Air temp	: 88deg F
Fld Inspector	: WILLIAM REYLEK	Mix temp	: 70deg F
Ticket/Truck	: 44061/ 179	Air content, ASTM C173	:
Test tech	:	Fresh unit wt, ASTM C138	: pcf
		Dry unit wt, ASTM C567	: pcf

PLACEMENT LOCATION: WESTSIDE CENTER SOUND WALL FENCE POST FOUNDATIONS.

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00102	08/27/04	7	6.00 x 12.00	28.27	72500		L	C	2560
00103	09/17/04	28	6.00 x 12.00	28.27	94000		L	C	3330
00104	09/17/04	28	6.00 x 12.00	28.27	100000		L	D	3540
Avg =									3440

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

09/17/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

MIX DATA

Lab Number : 57104
Sample date : 08/20/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ04-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

SAMPLE DATA

Set number : 0001
Cast time : 7:15am
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 44019/ 99
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 71deg F
Mix temp : 66deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138 : pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: SITE LIGHTING FOUNDATIONS AND ABOVE GROUND 16"
PIPE SUPPORTS

TEST DATA

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00106	08/27/04	7	6.00 x 12.00	28.27	108500		L	C	3840
00107	09/17/04	28	6.00 x 12.00	28.27	134000		L	B	4740
00108	09/17/04	28	6.00 x 12.00	28.27	129000		L	D	4560
									Avg = 4650

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

LEGEND

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION

09/17/04
Laboratory Manager

S I G N E T
T E S T I N G
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CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 57118
Sample date : 09/08/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : FSRC015
Size agg :
Spec Strength: 2500psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 2:00pm
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 45344/ 149
Test tech :

Slump, ASTM C143 : 4.50in
Air temp : 102deg F
Mix temp : 78deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: WEST SIDE SOUTH END SOUNDWALL FENCE
POST FOUNDATIONS

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR (psi)
00109	09/15/04	7	6.00 x 12.00	28.27	84000		L	A	2970
00110	10/06/04	28	6.00 x 12.00	28.27	131000		L	A	4630
00111	10/06/04	28	6.00 x 12.00	28.27	133000		L	A	4700

Avg = 4670

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

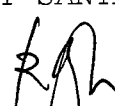
===== LEGEND =====

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


10/08/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====
Lab Number : 57254 Mix number : FSRC012
Sample date : 09/21/04 Size agg :
Material type : CIP CONCRETE COMPRESSION TEST Spec Strength: 2500psi @ 28 Days
Supplier : FOURTH STREET ROCK Cement factor:
Admixture :

===== SAMPLE DATA =====
Set number : 0001 Slump, ASTM C143 : 6.00in
Cast time : 11:55am Air temp : 82deg F
Fld Inspector : WILLIAM REYLEK Mix temp : 68deg F
Ticket/Truck : 46200/ 185 Air content, ASTM C173 :
Test tech : Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: EAST SIDE, SOUTHEND SOUNDWALL FENCE POST
FOUNDATIONS

===== TEST DATA =====
SAMPLE TEST AREA LOAD CORR CURE FRAC COMPRES
NO DATE AGE DIMENSIONS (in.) (sq in) (lbs) FACT TYPE TYPE STR(psi)

00116 10/05/04 14 6.00 x 12.00 28.27 65000 L A 2300
00117 10/19/04 28 6.00 x 12.00 28.27 88000 L A 3110
00118 10/19/04 28 6.00 x 12.00 28.27 96000 L A 3400
Avg = 3260

Samples MEET specified 28 - day strength requirement at 28 days.

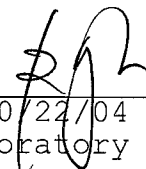
Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

===== LEGEND =====
Curing type: L = lab, F = field
Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


10/22/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 57255
Sample date : 09/23/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOUTH STREET ROCK
Admixture :

Mix number : CHJ04-066
Size agg :
Spec Strength: 4000psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 10:35am
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 46350/ 99
Test tech :

Slump, ASTM C143 : 4.00in
Air temp : 88deg F
Mix temp : 71deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: FILTER VESSEL LIGHTING FOUNDATIONS

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00119		H	6.00 x 12.00	28.27			L		
00120	09/30/04	7	6.00 x 12.00	28.27	116000		L	A	4100
00121	10/21/04	28	6.00 x 12.00	28.27	157000		L	A	5550
00122	10/21/04	28	6.00 x 12.00	28.27	156000		L	C	5520
									Avg = 5540

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

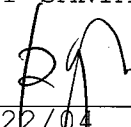
===== LEGEND =====

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


10/22/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 57128
Sample date : 10/06/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : FSRC3
Size agg :
Spec Strength: 2500psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 12:50pm
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 47341/ 149
Test tech :

Slump, ASTM C143 : 5.00in
Air temp : deg F
Mix temp : 73deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: EAST SIDE CENTER SECTION, SOUTH WALL FENCE POST
FOUNDATIONS

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00123		H	6.00 x 12.00	28.27			L		
00124	10/13/04	7	6.00 x 12.00	28.27	95500		L		3380
00125	11/03/04	28	6.00 x 12.00	28.27	117000		L	D	4140
00126	11/03/04	28	6.00 x 12.00	28.27	116000		L	C	4100
									Avg = 4120

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39 (CAST, CU)

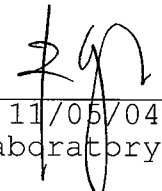
===== LEGEND =====

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

Respectfully submitted,
SIGNET SANTA ANA DIVISION


11/05/04
Laboratory Manager

S I G N E T
T E S T I N G
L A B S, I N C.

CONCRETE COMPRESSION TEST REPORT

3811 S MAIN ST
SANTA ANA, CA 92707
(714) 957-9512

RPT TO: URS CORPORATION
ADAM HARVEY
2520 VENTURE OAKS WAY
SUITE #250
SACRAMENTO

CA 95833

PROJECT NO.: 0014902
* PROJECT DETAIL INFORMATION *
MUSCOY OU RA-19TH ST TREATMENT
19TH STREET

SAN BERNARDINO CA
PERMIT #: /
APPL # :

===== MIX DATA =====

Lab Number : 57127
Sample date : 10/18/04
Material type : CIP CONCRETE COMPRESSION TEST
Supplier : FOURTH STREET ROCK
Admixture :

Mix number : FSRC3
Size agg :
Spec Strength: 2500psi @ 28 Days
Cement factor:

===== SAMPLE DATA =====

Set number : 0001
Cast time : 1:40pm
Fld Inspector : WILLIAM REYLEK
Ticket/Truck : 48208/ 178
Test tech :

Slump, ASTM C143 : 5.00in
Air temp : 70deg F
Mix temp : 66deg F
Air content, ASTM C173 :
Fresh unit wt, ASTM C138: pcf
Dry unit wt, ASTM C567 : pcf

PLACEMENT LOCATION: SOUTHSIDE SOUNDWALL POST FOUNDATIONS

===== TEST DATA =====

SAMPLE NO	TEST DATE	AGE	DIMENSIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRAC TYPE	COMPRES STR(psi)
00127		H	6.00 x 12.00	28.27			L		
00128	10/25/04	7	6.00 x 12.00	28.27	74000		L	A	2620
00129	11/15/04	28	6.00 x 12.00	28.27	136000		L	A	4810
00130	11/15/04	28	6.00 x 12.00	28.27	130000		L	A	4600
									Avg = 4710

Samples MEET specified 28 - day strength requirement at 28 days.

Comments:

Samples tested in accordance with ASTM C31/C39

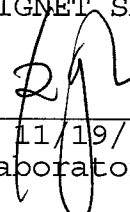
===== LEGEND =====

Curing type: L = lab, F = field

Fracture types: A=cone, B=cone and split, C=cone and shear, D=shear, E=columnar

cc: URS CORPORATION
* FILE COPY*

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SIGNET SANTA ANA DIVISION


11/19/04
Laboratory Manager